

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) An image-forming apparatus for forming an image on a wide recording material, which is wider than a corresponding standard fixed-form size recording material having a predetermined fixed-form size, based on an original
5 image recorded on a document, said apparatus comprising:

a plurality of recording material storing units, each of which is adapted to store a type of recording material;

an input section for inputting information regarding a size of said types of recording material stored in said recording
10 material storing units as setting information corresponding respectively to said recording material storing units;

a memory section to store said setting information corresponding to each of said recording material storing units;
and

15 a control section to determine controlling conditions based on said setting information and to control operations of said image-forming apparatus based on said controlling conditions;

wherein said setting information corresponding to the wide recording material includes said predetermined fixed-form size of
20 said corresponding standard fixed-form size recording material that is narrower than the wide recording material and longitudinal and lateral lengths of said wide recording material;

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

wherein inputting the setting information corresponding to the wide recording material includes a first step of inputting
25 said predetermined fixed-form size of said corresponding standard fixed-form size recording material into said input section, and a second step of inputting said longitudinal and lateral lengths of said wide recording material into said input section; and

wherein, when said longitudinal and lateral lengths inputted
30 at said second step are shorter than longitudinal and lateral lengths of said standard fixed-form size recording material inputted at said first step, said input section rejects the inputting operation of said longitudinal and lateral lengths.

2. (Previously Presented) The image-forming apparatus of claim 1, wherein said input section establishes the types of said recording material as said setting information corresponding respectively to said recording material storing units.

Claims 3 and 4 (Canceled).

5. (Previously Presented) The image-forming apparatus of claim 1, further comprising:

a displaying section to display said setting information in a manner such that each item of said setting information clearly

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

5 corresponds to the corresponding one of said recording material storing units.

6. (Currently Amended) The image-forming apparatus of claim 5, wherein said displaying section displays information in regard to said predetermined fixed form size of said standard fixed-form size recording material and information of size larger than said standard predetermined fixed-form size.

7. (Currently Amended) An image-forming apparatus for forming an image on a wide recording material, which is wider than a corresponding standard fixed-form size recording material having a predetermined fixed-form size, based on an original
5 image recorded on a document, said apparatus comprising:

a plurality of recording material storing units, each of which is adapted to store a type of recording material;

an input section for inputting information regarding a size of said types of recording material stored in said recording
10 material storing units as setting information corresponding respectively to said recording material storing units;

a memory section to store said setting information corresponding to each of said recording material storing units;
and

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

15 a control section to determine conveyance controlling
conditions, for determining a conveyance mode of said types of
recording material fed from said recording material storing
units, based on the corresponding setting information, and to
control operations of said image-forming apparatus based on said
20 determined conveyance controlling conditions;

wherein said setting information corresponding to the wide
recording material includes said predetermined fixed-form size of
said corresponding standard fixed-form size recording
material that is narrower than the wide recording material and
25 longitudinal and lateral lengths of said wide recording material,
and said conveyance controlling conditions for the wide recording
material are determined based on said longitudinal and lateral
lengths of said wide recording material;

wherein inputting the setting information corresponding to
30 the wide recording material includes a first step of inputting
said predetermined fixed-form size of said corresponding standard
fixed-form size recording material into said input section, and a
second step of inputting said longitudinal and lateral lengths of
said wide recording material into said input section; and

35 wherein, when said longitudinal and lateral lengths inputted
at said second step are shorter than longitudinal and lateral
lengths of said standard fixed-form size recording material

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

inputted at said first step, said input section rejects the
inputting operation of said longitudinal and lateral lengths.

8. (Previously Presented) The image-forming apparatus of
claim 7, wherein said input section establishes the types of said
recording material as said setting information corresponding
respectively to said recording material storing devices.

9. (Previously Presented) The image-forming apparatus of
claim 7, wherein said control section calculates an approximate
fixed-form size corresponding to the wide recording material such
that longitudinal and lateral lengths of the approximate fixed-
5 form size are approximate to, and do not exceed, said
longitudinal and lateral lengths of the wide recording material,
and said control section calculates said conveyance controlling
conditions for the wide recording material based on conveyance
controlling conditions corresponding to said approximate
10 fixed-form size.

10. (Previously Presented) The image-forming apparatus of
claim 9, wherein said conveyance controlling conditions
corresponding to said approximate fixed-form size are given in
advance.

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

11. (Original) The image-forming apparatus of claim 9, wherein said approximate fixed-form size is separately determined with respect to each of longitudinal and lateral directions.

12. (Currently Amended) The image-forming apparatus of claim 9, wherein said control section compares said ~~standard~~ predetermined fixed-form size of said standard fixed-form size recording material with a most approximate fixed-form size, having longitudinal and lateral lengths that are most approximate to, and do not exceed, said longitudinal and lateral lengths of the wide recording material, and

wherein said control section determines said ~~standard~~ predetermined fixed-form size of said standard fixed-form size recording material as said approximate fixed-form size when said ~~standard~~ predetermined fixed-form size of said standard fixed-form size recording material is equal to said most approximate fixed-form size, and determines said most approximate fixed-form size as said approximate fixed-form size when said ~~standard~~ predetermined fixed-form size of said standard fixed-form size recording material is smaller than said most approximate fixed-form size.

13. (Currently Amended) An image-forming apparatus, for forming an image on a wide recording material, which is wider

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

than a corresponding standard fixed-form size recording material
having a predetermined fixed-form size, based on an original
5 image recorded on a document, said apparatus comprising:

a plurality of recording material storing units, each of
which is adapted to store a type of recording material;

an input section for inputting information regarding a size
of said types of recording material stored in said recording
10 material storing units as setting information corresponding
respectively to said recording material storing units;

a memory section to store said setting information
corresponding to each of said recording material storing units;
and

15 a control section to determine conveyance controlling
conditions, for determining a conveyance mode of said types of
recording material fed from said recording material storing
units, based on the corresponding setting information, and to
control operations of said image-forming apparatus based on said
20 determined conveyance controlling conditions;

wherein said setting information corresponding to the wide
recording material includes said predetermined fixed-form size of
said corresponding standard fixed-form size recording
material that is narrower than the wide recording material and
25 longitudinal and lateral lengths of said wide recording material,
and said conveyance controlling conditions for the wide recording

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

material are determined based on said longitudinal and lateral lengths of said wide recording material;

wherein said control section calculates an approximate
30 fixed-form size corresponding to the wide recording material such that longitudinal and lateral lengths of the approximate fixed-form size are approximate to, and do not exceed, said longitudinal and lateral lengths of the wide recording material, and said control section calculates said conveyance controlling
35 conditions for the wide recording material based on conveyance controlling conditions corresponding to said approximate fixed-form size; and

wherein said control section calculates said conveyance controlling conditions for the wide recording material based on
40 difference values between the longitudinal and lateral lengths of said wide recording material and the longitudinal and lateral lengths of said approximate fixed-form size in longitudinal and lateral directions, respectively.

14. (Previously Presented) The image-forming apparatus of claim 13, wherein said control section calculates said conveyance controlling conditions for the wide recording material by compensatively adding said difference values to said conveyance controlling conditions corresponding to said approximate fixed-form size.

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

15. (Original) The image-forming apparatus of claim 14, wherein said control section calculates said conveyance controlling conditions in respect to a PPM interval control by utilizing said difference values in said longitudinal direction.

16. (Original) The image-forming apparatus of claim 14, wherein said control section calculates said conveyance controlling conditions in respect to an ADU circulation control by utilizing said difference values in said longitudinal direction.

17. (Original) The image-forming apparatus of claim 14, wherein said control section calculates said conveyance controlling conditions in respect to a controlling operation for detecting a positional deviation of said recording material by utilizing said difference values in said lateral direction.

18. (Currently Amended) The image-forming apparatus according to claim 1, further comprising:

an automatic magnification selecting section to automatically determine a magnification factor utilized for forming said image on said wide recording material, based on a
5 (i) said predetermined fixed form size of said standard fixed-form size of recording material corresponding to said

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

wide recording material and (ii) a size of said document, with respect to each dimension of said document. 7

10 ~~wherein said magnification factor is determined based on said standard fixed-form size corresponding to said wide recording material.~~

19. (Previously Presented) The image-forming apparatus of claim 18, wherein said input section establishes the types of said recording material as said setting information corresponding respectively to said recording material storing units.

20. (Currently Amended) The image-forming apparatus according to claim 1, further comprising:

5 an automatic storing unit switching section to automatically switch a feeding path of said recording material from a current recording material storing unit to another feeding path from another recording material storing unit that stores a same type of recording material as said current recording material storing unit, when said current recording material storing unit is emptied during consecutive image-forming operations for said same
10 type of recording material;

wherein when said recording material is said wide recording material, it is determined that said another recording material storing unit stores said same type of recording material based on said predetermined fixed-form size of said corresponding standard

Application No. 09/813,213
Response to Final Office Action

Customer No. 01933

- 15 fixed-form size recording material and said longitudinal and lateral lengths of said wide recording material.

21. (Previously Presented) The image-forming apparatus of claim 20, wherein said input section establishes the types of said recording material as said setting information corresponding respectively to said recording material storing units.